

Justin Pardee

Springfield, OR 97478 | 801-368-1380 | jjpardee@gmail.com

Summary

Mechanical engineer with over six years of experience designing and overseeing mechanical systems across semiconductor, industrial and manufacturing projects. Skilled in detailed CAD modeling (SolidWorks, Inventor, Plant3D) and preparing technical drawings and specifications. Proven ability to deliver complete design packages, optimize system performance and collaborate effectively with cross-disciplinary teams.

Education

Oregon State University

BSME, Mechanical Engineering

Jun 2015 - Mar 2019

Skills

- **CAD Software:** CAD Software, Solidworks, Creo, AutoDesk Inventor, Plant3D
- **Engineering & Design:** Mechanical Engineering, Mechanical System Design, Design for Manufacture, Reliability Engineering
- **Professional Skills:** Python, Microsoft Office Suite, Project Management

Engineering Experience

Core States Group

Mechanical Engineer

Dec 2023 - Oct 2025

- Designed standardized utility rack systems using CAD software for semiconductor fabrication
- Reviewed and corrected engineering designs for process interconnects
- Developed new tool designs for critical processes within a confined subfloor for semiconductor fabrication, applying mechanical system design principles
- Managed project and design package submittals to process owners

Evergreen Engineering

Mechanical Engineer

Feb 2023 - Dec 2023

- Assisted with the development and review of Process Flow Diagrams for a greenfield wood products plant
- Analyzed a pulp mill's energy systems and heat exchangers using mechanical engineering principles for potential energy savings
- Created technical reports for clients detailing findings and recommendations for various projects
- Reviewed piping drawings and performed pipe flow calculations using CAD software and mechanical system design principles

SSI Shredding Systems

Design Engineer/Project Engineer

Jan 2021 - Dec 2022

- Designed industrial shredding equipment for companies in various e-scrap and industrial waste applications.
- Managed customer facing projects while interfacing with manufacturing, purchasing, and shipping to meet ship dates
- Worked with sales and engineering departments to begin streamlining and improving document control standards
- Training and directing new drafters to complete sales layouts for prospective and existing customers
- Developed fixturing to improve assembly and machining processes

PPM

Design Engineer

Dec 2019 - Jan 2021

- Planned and designed food manufacturing vibration and conveyor equipment for global brands and corporations
- Edited designs based on part availability, cost, customer requests, and factory parameters for customization
- Worked with operators to increase efficiency of laser cutting process to improve downstream manufacturability

Oregon Mainline Paving

Estimator/Field Engineer

May 2019 - Dec 2019

- Assisted with job controls and compliance with contracts, budgets, schedules, forecasting and job costing
- Managed and processed projects and subcontracts in excess of \$16 million
- Worked with city and state governments to ensure that projects met contract specifications
- Interfaced with on-site departments as required to recommend solutions to barriers in order to keep projects on schedule
- Researched historical data and productivity reports to inform future job estimates
- Initiated and reviewed contracts, accounts receivables, payables, and small job receivables

Georgia Pacific

MECOP Mechanical Intern

Apr 2018 - Dec 2018

- Participated in process hazard analysis meetings for chemical paper-making processes
- Managed projects related to dust mitigation and ongoing upgrades to passive cooling towers

FormFactor Inc.

MECOP Mechanical Intern

Apr 2017 - Sep 2017

- Solid modeled and developed multiple testing fixtures for many products in development
- Gained familiarity with the GD&T drafting standards